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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/836,144	04/17/2001	Hiroko lwasaki	2271/50717-AY	7345	

arm.

06/15/2004

RICHARD F. JAWORSKI Cooper & Dunham LLP 1185 Avenue of the Americas New York, NY 10036 2271/50717-AY 7345

EXAMINER

MCPHERSON, JOHN A

ART UNIT PAPER NUMBER

1756

DATE MAILED: 06/15/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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	•	Application No	o	Applicant(s)	
	0.00	09/836,144		IWASAKI, HIROKO	
	Office Action Summary	Examiner		Art Unit	
		John A. McPhe		1756	
Period fo	The MAILING DATE of this communication or Reply	appears on the cove	er sheet with the c	orrespondence addres	SS
THE I - Exter after - If the - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR RE MAILING DATE OF THIS COMMUNICATION is sions of time may be available under the provisions of 37 CF SX (6) MONTHS from the malling date of this communication period for reply specified above is less than thirty (30) days, period for reply is specified above, the maximum statutory period for reply is specified above, the maximum statutory period for reply will, by epily received by the Office later than three months after the rid patent term adjustment. See 37 CFR 1.704(b).	DN. R 1.136(a). In no event, how a reply within the statutory m rirod will apply and will expiratatute, cause the application	vever, may a reply be tim inimum of thirty (30) days s SIX (6) MONTHS from to to become ABANDONET	ely filed will be considered timely. he mailing date of this commun	nication.
Status					
1)[Responsive to communication(s) filed on 1	8 December 2003.			
		This action is non-fir	nai.		
3)□	Since this application is in condition for allo			secution as to the me	rits is
	closed in accordance with the practice und				
	on of Claims				
	Claim(s) 7-17 is/are pending in the applica	tion.			
	4a) Of the above claim(s) <u>7-11 and 13-15</u> is		consideration		
	Claim(s) is/are allowed.				
	Claim(s) 12,16 and 17 is/are rejected.				
_	Claim(s) is/are objected to.				
8)[]	Claim(s) are subject to restriction ar	nd/or election require	ement.		
Applicatie	on Papers				
9)[] 7	The specification is objected to by the Exan	niner.			
	The drawing(s) filed on is/are: a)		iected to by the E	xaminer	
	Applicant may not request that any objection to				
	Replacement drawing sheet(s) including the cor				121(d).
11)[] 7	The oath or declaration is objected to by the	Examiner. Note the	e attached Office	Action or form PTO-15	52.
Priority u	nder 35 U.S.C. § 119				
a)[Acknowledgment is made of a claim for fore All b) Some * c) None of: 1. Certified copies of the priority docum			(d) or (f).	
:	2. Certified copies of the priority docum	ents have been rece	eived in Application	n No	
:	3. Copies of the certified copies of the p	riority documents ha	ave been received	I in this National Stand	e
	application from the International Bur			·	-
* S	ee the attached detailed Office action for a	list of the certified co	ppies not received		
Attachment('				
	of References Cited (PTO-892)	4) 🔲	Interview Summary (F		
	of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449 or PTO/SB/	08) 5)	Paper No(s)/Mail Date Notice of Informal Pat	e ent Application (PTO-152)	
Paper	No(s)/Mail Date		Other:	.,	
Patent and Tra- OL-326 (Re		Action Summary	Pa	art of Paper No./Mail Date 3	301504

Application/Control Number: 09/836,144

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DETAILED ACTION

Response to Amendment

- 1. This Office Action is responsive to the Amendment filed 12/18/03.
- 2. The Amendment filed 12/18/03 successfully overcomes the rejection set forth in paragraph 3 of the Office Action dated 9/16/03. Accordingly, this rejection is withdrawn.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim 17 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

New claim 17 presents the limitation wherein the compound [having a thermal conductivity greater than or equal to 10 W/m.deg when in a bulk state] includes a combination of the silicon nitride and zinc oxide,... silicon carbide, and/or silicon oxide. However, silicon oxide is not disclosed in the specification as a compound having a thermal conductivity greater than or equal to 10 W/m.deg when in a bulk state, but instead silicon oxide is disclosed as a material (i.e. the "basic material") with which the

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compound having the high thermal conductivity is combined. For example, in the specification see page 8, line 4 to page 9, line 1; page 12, lines 16-20 and Table 1.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 12, 16 and 17 are rejected under 35 U.S.C. 102(b) as being anticipated by US 4,920,007 (US '007). US '007 discloses an optical recording medium provided with a protective layer of an oxide-nitride mixture, wherein the oxide includes silicon oxide and the nitride includes silicon nitride. The nitride and oxide are mixed in a ratio of 9:1 to 1:9, exemplified by a layer comprising Si₃N₄ and SiO₂ in weight proportions of 6:4. See the abstract; column 2, lines 48-51; column 3, lines 1-9; and Example 1.

5. Claims 12, 16 and 17 are rejected under 35 U.S.C. 102(b) as being anticipated by US 4,902,584 (US '584). US '584 discloses an optical recording medium comprising a recording layer on a substrate and a protective layer, wherein the protective layer comprises SiO₂, Si₃N₄ and a divalent metal oxide (such as Mg and ZnO), and optionally other members such as Al₂O₃ and AlN. The molar ratio of the silicon oxide to the silicon nitride ranges from about 50:50 to 90:10. See the abstract; column 4, lines 30-59; and Tables 2-4.

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Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John A. McPherson whose telephone number is (571) 272-1386. The examiner can normally be reached on Monday through Friday, 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Huff can be reached on (571) 272-1385. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

John A. McPherson Primary Examiner Art Unit 1756

JAM 3/15/04